

Summary of DE2520998

DE 25 20 998 discloses a method and apparatus for forming a glass fibre reinforced plastic rod with an outer thread. The apparatus comprises a casting section (2), a guide section (3), and a drive section (4). A glass fibre reinforced plastic rod is positioned to extend through these three sections as is shown in Figure 1. Liquid plastic material that is to form the outer thread on the outer surface of the glass fibre reinforced plastic rod is provided through a hopper (13) and a channel (12). The liquid plastic material is pressed into an inner bore (7) of the casting section (2) while the rod is static in this section. A heater (8) is used to accelerate solidification of the plastic.

Once the plastic has solidified the drive section (4) rotates the plastic rod. This causes the threaded sleeve (17) to rotate within the threaded bore (16) of the guide section (3), thereby causing forward movement of the entire rod. The guide section (3) has a length that corresponds to the threaded section (7) of the casting section. Movement of the sleeve (17) from the right end of the guide section (3) as shown in figure 1 to the left end of the guide section (3) moves the entire length of the newly formed outer thread out of the threaded inner bore (7) of the casting section (2). Thereafter a new length of thread can be cast and solidified on the rod.

To move the rod further forward the guide section (3) is opened and the sleeve (17) is returned to the right hand part of the guide section (3) without moving the glass fibre reinforced rod.

An alternative embodiment combines the drive section and the guide section in a single section placed downstream of the casting section. In this arrangement a driving force is applied to the rod through the solidified outer thread.